Received in October, 1767.

XLV. Of the Increase and Mortality of the Inhabitants of the Island of Madeira. By Dr. Thomas Heberden, F. R. S.

Read Nov. 26, WHEN I consider the number of people in the Madeira, and the state of the inhabitants, I know no place more proper for forming an estimate of the increase and mortality of mankind, than this island; for the number of persons is upwards of 60,000, all of whom may be supposed to live and die in the same place where they received their existence; the accession of strangers and the egression of the natives being so equally inconsiderable, that if the one doth not exactly counterbalance the other, the difference may justly be neglected, as of no consequence in the general calculation.

This has excited my curiofity; and, by my interest with the vicar-general of this diocese, I have procured a survey from house to house in each of the respective parishes; from which, and the parish registers, I have deduced the adjoined account.

An Hypothesis.

The number of persons in this island, in the year 1743, was 48234 of seven years old and upwards.

Now

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Now supposing the minors were in the same proportion then, as in this present year, the total of the inhabitants was 53,057. Therefore, by the rule of anatocism, they have increased at the rate of 1.0082 per cent. per annum; and by the same rule do double in 84 years 4 months and 25 days.

From an exact survey, made in the beginning of the year 1767, the number of inhabitants on the island of Madeira, was as follows;

Persons of seven years old and upward Persons under seven years of age					58669 5945	
			Total		64614	
Anno 1759 1760 1761 1762 1763 1764 1765	Chrif Males 1021 1198 1035 1128 1118 1112 1183 1172	Fem. 905	Bur Males 542 643 837 662 540 620 618 506	Fem. 594 713 909	Wedd. 438 421 513 491 476 469 495 462	
Total	17	611	103	51	e ^r	

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Christened in 8 years Buried in 8 years	17611 10351	Medium Medium	for eac	h year h year	2 I	201 } 293 }	
Octennial increase	7260	Annual increase				907#	
Proportion of the yearly births of the yearly burials of births to burials of males born, to f females buried,	emales	er of persons,	88	100	to to to	29,35 49,89 58,77 96,39	
Weddings each year Proportion of Wed		births,	as I		•	68 75	

Mortality of the Seasons.

Winter		Spring	Summer	Autumn	
January February March	93 84 132	April 108 May 105 June 120	July 129 August 135 September 84	October 87 November 111 December 84	
	309	333	348	282	
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The mortality of spring and summer, to that of autumn and winter, as 115 to 100.

N. B. This calculation of the mortality of the seasons is not deduced from the whole number of Inhabitants on the island, as I could not procure authentic materials to proceed with exactness; the number of the persons, from which it is calculated, is 6880.